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NOTICE OF ALLOWANCE AND FEE(S) DUE

86661 7590 07/08/2010

Potomac Patent Group PLLC P.O. Box 270 Fredericksburg, VA 22404 EXAMINER
COMLEY, ALEXANDER BRYANT

ART UNIT PAPER NUMBER

3746

DATE MAILED: 07/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,378	02/06/2006	Enrico Calamai	134636/0341-008	4610	

TITLE OF INVENTION: METHOD AND SYSTEM FOR MONITORING A RECIPROCATING COMPRESSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees w pondence address;	vill be and/or	mailed to the current r (b) indicating a sepa	correspond trate "FEE	lence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRM			MATION NO.	
10/539,378	02/06/2006	•	Enrico Calamai		13	34636/0341-008		4610
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	S FEE	TOTAL FEE(8) DUE	D	ATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	1	0/08/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
COMLEY, ALEXA	ANDER BRYANT	3746	417-053000					
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address for Change of Correspondence Address from PIOSB/122) and Lanched. The Address' indication (or "Fee Address" Indication for PIOSB/124) and PIOSB/142 and PIOSB/147 a			or agents OR, alternation (2) the name of a single registered attorney or a 2 registered patent attorney in the listed, no name will be	ames of up to 3 registered patent attorneys [1] Most alternatively, mer of a single firm (though gas a member a attorney or agent) and the names of up to depatent attorneys or agents. If no name is anne will be prainted.				
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the p Ta substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	OUNT	TRY)		
4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	iched. required fee(s), any de	ficiency, o	
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regi	stered	attorney or agent; or the	ne assignee	or other party in
Authorized Signature				Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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86661 75	90 07/08/2010		EXAMINER			
Potomac Patent Group PLLC P.O. Box 270			COMLEY, ALEXANDER BRYANT			
			ART UNIT PAPER NUMBER			
Fredericksburg, V	A 22404		3746			

DATE MAILED: 07/08/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 408 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 408 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/539,378	CALAMAI, ENRICO				
Examiner	Art Unit				
ALEXANDER B. COMLEY	3746				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to Amendments filed on May 12th, 2010.
- The allowed claim(s) is/are 6-23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

Other . /Alexander Comley/

Examiner, Art Unit 3746

Primary Examiner, Art Unit 3746

/Charles G Freav/

Application/Control Number: 10/539,378 Page 2

Art Unit: 3746

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: The combination as claimed requires a method and system for monitoring a reciprocating compressor comprising reading data corresponding to measured parameters relating to an operating state of the reciprocating compressor from sensors; reading manually entered data corresponding to manually entered parameters relating to the operating state of the compressor; reading reference parameters relating to the operating state of the compressor from a first database; wherein the measured parameters and the manually entered parameters related to the operating state of the reciprocating compressor include one or more of an intake pressure of a first stage of the reciprocating compressor, an intake temperature of each stage of the reciprocating compressor, a delivery pressure of a last stage of the reciprocating compressor, a composition of the gas, an ambient pressure of the reciprocating compressor, a speed of rotation of the reciprocating compressor, and a temperature of a cooling fluid at an inlet and an outlet of the reciprocating compressor cylinders, and wherein the operating parameters include one or more of a gas flow rate, a delivery pressure of each stage except the last stage of the reciprocating compressor, a delivery temperature at each stage of the reciprocating compressor, a power consumption of the reciprocating compressor and forces acting on the reciprocating compressor and the operating parameters are calculated by the design program based on the measured parameters and the manually entered parameters related to the operating state of the reciprocating compressor; reading operating parameters of the compressor that are calculated by a

Application/Control Number: 10/539,378

Art Unit: 3746

design program; performing first and second comparisons, wherein the first comparison analyzes the reference parameters with respect to the measured parameters, the manually entered parameters, and the operating parameters; while the second comparison analyzes the reference parameters with respect to the measured parameters, and the manually entered parameters; detecting whether an anomaly exists based on results of the two comparisons, and if such an anomaly is detected. performing a search in a second database of previously stored data correlated with predetermined anomalies and corresponding characteristics of the predetermined anomalies in order to find a match such that a signal can be sent according to the match, wherein the signal indicates characteristics of the detected anomaly of the operating state of the compressor. No prior art documents appear to disclose such a combination of functional limitations or any obvious variants thereof. In particular, the prior art does not appear to disclose Applicant's specific comparisons, nor the exact nature of Applicant's compared parameters. Moreover, the prior art appears to utilize only a single comparison (as opposed to Applicant's multiple comparisons) between compressor parameters.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 3746

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER B. COMLEY whose telephone number is (571)270-3772. The examiner can normally be reached on M-F 7:30am - 5:00am EST (Alternate Fridays Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon C. Kramer can be reached on (571)-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alexander B Comley/ Examiner, Art Unit 3746 /Charles G Freay/ Primary Examiner, Art Unit 3746

ABC